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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/677,900	10/02/2003	Dennis W. Crabtree	50049 9672	
22929 7590 03/15/2007 SUE Z. SHAPER, P.C. 1800 WEST LOOP SOUTH SUITE 1450 HOUSTON, TX 77027			EXAMINER	
			NGUYEN, DINH Q	
			ART UNIT	PAPER NUMBER
			3752	
SHORTENED STATUTORY PERIOD OF RESPONSE		MAIL DATE	DELIVERY MODE	
3 MONTHS		03/15/2007	PAPER	

Please find below and/or attached an Office communication concerning this application or proceeding.

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

	Application No.	Applicant(s)		
	10/677,900	CRABTREE ET AL.		
Office Action Summary	Examiner	Art Unit		
•	Dinh Q. Nguyen	3752		
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence address		
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period was pailure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be timulated the control of t	N. nely filed the mailing date of this communication. D (35 U.S.C. § 133).		
Status				
3) Since this application is in condition for allowar	action is non-final. nce except for formal matters, pro			
closed in accordance with the practice under E	x parte Quayle, 1935 C.D. 11, 45	i3 O.G. 213.		
Disposition of Claims	•			
4) ☑ Claim(s) 1-14 is/are pending in the application. 4a) Of the above claim(s) is/are withdrav 5) ☐ Claim(s) is/are allowed. 6) ☑ Claim(s) 1-14 is/are rejected. 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) are subject to restriction and/or	vn from consideration.			
Application Papers				
9) The specification is objected to by the Examine 10) The drawing(s) filed on is/are: a) access applicant may not request that any objection to the Replacement drawing sheet(s) including the correct and the contract of the contract	epted or b) objected to by the formula of the following of the held in abeyance. See ion is required if the drawing (s) is object.	e 37 CFR 1.85(a). jected to. See 37 CFR 1.121(d).		
Priority under 35 U.S.C. § 119				
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 				
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date 12/12/06.	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:	ate		

Art Unit: 3752

DETAILED ACTION

Claim Rejections - 35 USC § 112

- 1. The following is a quotation of the second paragraph of 35 U.S.C. 112:
 - The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.
- 2. Claims 1-14 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention. In claims 1-4, the limitation "self-metering automatic" is not clearly define in such a way to differentiate between automatically metering additives (self-metering) and automatically pressurizing nozzle (automatic), thus the limitation "self-metering automatic" could be interpreted as automatically metering additives and not pressure regulating at a predetermine pressure. Claims 10-12, the limitation "(pressure regulating, at least in part)" cannot be in parentheses and could be understood as a broad range (automatic) within a narrow range (pressure regulating, at least in part).

Claim Rejections - 35 USC § 102

3. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(e) the invention was described in a patent granted on an application for patent by another filed in the United States before the invention thereof by the applicant for patent, or on an international application by another who has fulfilled the requirements of paragraphs (1), (2), and (4) of section 371(c) of this title before the invention thereof by the applicant for patent.

The changes made to 35 U.S.C. 102(e) by the American Inventors Protection Act of 1999 (AIPA) and the Intellectual Property and High Technology Technical Amendments Act of 2002 do not apply when the reference is a U.S. patent resulting directly or indirectly from an international application filed before November 29, 2000. Therefore, the prior art date of the

reference is determined under 35 U.S.C. 102(e) prior to the amendment by the AIPA (pre-AIPA 35 U.S.C. 102(e)).

4. Claims 1-14 are rejected under 35 U.S.C. 102(e) as being anticipated by Crabtree et al. (U.S. Patent No. 6,659,187).

The applied reference has a common assignee with the instant application. Based upon the earlier effective U.S. filing date of the reference, it constitutes prior art under 35 U.S.C. 102(e). This rejection under 35 U.S.C. 102(e) might be overcome either by a showing under 37 CFR 1.132 that any invention disclosed but not claimed in the reference was derived from the inventor of this application and is thus not the invention "by another," or by an appropriate showing under 37 CFR 1.131.

Crabtree et al. discloses a self-metering and discharge pressure regulating nozzle having an additive passage FC in communication with fluid conduit C, structure elements 94/96 defining a variable opening 94 associated with the additive passage FC, wherein the fluid conduit C with a discharge orifice PS that varies in size (see figure 1A).

With respect to claims 10-14, the apparatus shown by Crabtree et al. is capable of performing the method or steps recited in the claims.

Claim Rejections - 35 USC § 103

- 5. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 6. Claims 1-14 are rejected under 35 U.S.C. 103(a) as being unpatentable over Lindsay (U.S. Patent No. 3,647,002) in view of Steingass et al. (U.S. Patent No. 5,312,048).

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Lindsay discloses a fire fighting nozzle 85 comprising: a proportioner 11, an additive passageway 33 in fluid communication with a fire fighting liquid conduit 83, a discharge orifice 17/23 varies in size with the supply pressure for regulating discharge pressure, structural elements 33/35/37/41/19 defining a variable opening associated with the additive passageway 33 that is automatically varied in response to variation in sizes of the discharge orifice, or a valve 33/35/37/41/19 associated with the additive passageway 33 that is automatically varied in response to variation in sizes of the discharge orifice, and a ratio selector 77 with at least two settings (see figure) discloses. Lindsay does not teach the liquid conduit of the fire-fighting nozzle that has a variable discharge orifice. However, Steingass et al. discloses a discharge pressure regulating fire fighting nozzle with a fire fighting liquid conduit 21 with flow 27 and a discharge orifice 98 that varies in sizes (see Figures 2 and 3). Therefore, it would have been obvious to one having ordinary skill in the art to have provided the device of Lindsay with a firefighting nozzle that has a variable discharge orifice as suggested by Steingass et al. Doing so would provide a way to maintain a constant pressure for a fire fighting nozzle (see column 1, lines 15+).

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Response to Arguments

- 7. Applicant's arguments filed December 12, 2006 have been fully considered but they are not persuasive.
- 8. Applicant's arguments with respect to claims 1-14 have been considered but are moot in view of the new ground(s) of rejection.
- 9. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Dinh Q. Nguyen whose telephone number is 571-272-4907. The examiner can normally be reached on Monday-Thursday 6:00-4:30.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Kevin Shaver can be reached on 571-272-4720. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

> Dinh Q Nguyen **Primary Examiner** Art Unit 3752